## In the Claims

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	1.(canceled) 2.(canceled) 3.(canceled) 4.(canceled) 5.(canceled) 6.(canceled) 7.(canceled) 8.(canceled)		
1	9.(previously p	resented) A method to determine if an animal has Leber's congenital amaurosis	
2	or has a propens	has a propensity to pass Leber's congenital amaurosis to offspring, comprising the steps of:	
3	(A) 6	extracting polynucleotide from a cell or sample;	
4	(B) c	determining if the polynucleotide contains a mutation in an AIPL1 encoding or	
5	r	regulating region; and	
6	(C) c	correlating the presence of the mutation as an indication of Leber's congenital	
7	a	amaurosis or a propensity to pass Leber's congenital amaurosis to offspring.	
1	10.(original)	The method of claim 9, further comprising the steps of:	
2	obtaining a patient sample; and		
3	amplifyi	ing the polynucleotide.	
1	11.(original)	Γhe method of claim 10, wherein the amplifying is done via polymerase chain	
2	reaction.		
1	12.(original)	The method of claim 9, wherein the determining is done via polynucleotide sequence.	
1	13.(previously	<b>presented</b> ) The method of claim 9, wherein the mutations is Trp278X.	
	14.(canceled) 15.(canceled) 16.(canceled) 17.(canceled) 18.(canceled) 19.(canceled) 20.(canceled)		

1	21.(previous)	ly presented) A method for determining the presence of an AIPL1 mutant in a
2	patient sampl	e, which comprises:
3	(A)	isolating polynucleotide extracted from the patient sample;
4	(B)	hybridizing a detectably labeled oligonucleotide to the polynucleotide isolated in step
5		(A), the oligonucleotide having at its 3' end at least 15 nucleotides complementary
6		to a wild type polynucleotide sequence having at least one mutation;
7	(C)	attempting to extend the oligonucleotide at its 3'-end;
8	(D)	ascertaining the presence or absence of a detectably labeled extended
9		oligonucleotide; and
0	(E)	correlating the presence or absence of a detectably labeled extended oligonucleotide
1		in step (D) with the presence or absence of a AIPL1 Trp278X mutation evidencing
2		Leber's congenital amaurosis or a propensity to pass Leber's congenital amaurosis to
3		offspring.
1	22.(previous	ly presented) The method of claim 21, further comprising taking a the patient sample
2	prior to the is	olating step.
1	23.(original)	The method of claim 21, wherein the isolated nucleic acid is amplified prior to
2	hybridization	•
1	24.(original)	The method of claim 21, wherein the detectable label on the oligonucleotide is an
2	enzyme, radio	pisotope or fluorochrome.
	25.(canceled) 26.(canceled)	
	201(041100104)	
1	27.(previous	ly presented) A method to determine if a cell or sample has an AIPL1 mutation
2	comprising:	
3	(A)	extracting polynucleotide from the cell or the sample;
4	(B)	amplifying polynucleotides which encode AIPL1; and
5	(C)	determining if the polynucleotide contains a Trp278X mutation;

6 (D) correlating the presence of the mutation as an indication of Leber's congenital amaurosis or a propensity to pass Leber's congenital amaurosis to offspring.